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# REPORT ON WATER TUBE BOILERS.

No. 10104<sup>c</sup>

Received at London Office

28 JAN 1926

Date of writing Report 16 January 1926 When handed in at Local Office 19 Port of AMSTERDAM

No. in Survey held at AMSTERDAM Date, First Survey 21 November 1924 Last Survey 15 January 1926  
 Reg. Bk. 35230 on the Steel Screw Steamer "T J I S A R O E A" Number of Visits 13 Tons { Gross 7089 Net 4394  
 Master - Built at Amsterdam By whom built Ned. Scheepbouw My. When built 1926  
 Engines made at Amsterdam By whom made Werkspoor When made 1926  
 Boilers made at Amsterdam By whom made Werkspoor When made 1926  
 Registered Horse Power 3000 S.H.P. Owners Java-China-Japan Lijn Port belonging to Batavia

## WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel.

(Letter for Record S.V.) Date of Approval of plan 11th June 1924 Number and Description or Type of Boilers 4 Babcock Wilcox Working Pressure 220 lb. Tested by Hydraulic Pressure to 380 lb. Date of Test 11 May 1925  
 No. of Certificate 310 Can each boiler be worked separately Yes Total Heating Surface of Boilers 11092 sq. ft.  
 Is forced draught fitted Yes Area of fire grate (coal) in each Boiler 43.5 sq. ft. Total grate area of boilers in vessel including Main and Auxiliary 194 sq. ft. No. and type of burners (oil) in each boiler 3 (Standard) No. and description of safety valves on each boiler 2 High lift valves Area of each valve 7.05 sq. inch Pressure to which they are adjusted 220 lb.  
 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler No donkey  
 Smallest distance between boilers or uptakes and bunkers or woodwork over 12" Height of Boiler 14' 0" Width and Length 15' x 15' 6"  
 Steam Drums:—Number in each boiler One Inside diameter 3' 6" Material of plates S.M. Steel Thickness 1/2", 1"  
 Range of Tensile Strength 28-32 tons per sq. inch Are drum shell plates welded or flanged No Description of riveting:—  
 Cir. seams double riveted long. seams double riveted Diameter of rivet holes in long. seams 2 1/2" Pitch of Rivets 3.24"  
 Lap of plate or width of butt straps 4" Thickness of straps 1/16" Percentage strength of long. joint:—Plate 45% Rivet 44%  
 Diameter of tube holes in drum 4" Pitch of tube holes 4" Percentage strength of shell in way of tubes 42.8%  
 If Drum has a flat side state method of staying < Depth and thickness of girders at centre (if fitted) < Distance apart < Number and pitch of stays in each < Working pressure by rules <  
 Steam Drum Heads or Ends:—Material S.M. Steel Thickness 3/4" Radius or how stayed 3'-0"  
 Size of Manhole or Handhole No holes in heads Water Drums:—Number in each boiler one Inside Diameter 6" x 6" square  
 Material of plates Steel Thickness 3/4" Range of tensile strength 24/30 tons Are drum shell plates welded or flanged welded Description of riveting:—Cir. seams < long. seams < Diameter of Rivet Holes in long. seams < Pitch of rivets < Lap of plates or width of butt straps < Thickness of straps <  
 Percentage strength of long. joint:—Plate < Rivet < Diameter of tube holes in drum < Pitch of tube holes <  
 Percentage strength of drum shell in way of tubes < Water Drum Heads or Ends:—Material < Thickness < Radius or how stayed < Size of manhole or handhole < Headers or Sections:—Number 38  
 Material S.M. Steel Thickness 1 1/2" Tested by Hydraulic Pressure to 660 lb. Material of Stays no stays  
 Area at smallest part < Area supported by each stay < Working Pressure by Rules < Tubes:—Diameter 1 1/2", 4"  
 Thickness 10 g. 6 1/4" Number 647 Steam Dome or Collector:—Description of Joint to Shell < Percentage strength of Joint < Diameter < Thickness of shell plates < Material <  
 Description of longitudinal joint < Diameter of Rivet Holes < Pitch of Rivets < Working Pressure of shell by Rules < Crown or End Plates:—Material < Thickness < How stayed <

## SUPERHEATER.

Type Schmidt Date of Approval of Plan 2.6.25 Tested by Hydraulic Pressure to 660 lb.  
 Date of Test 26.8.25 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Yes  
 Diameter of Safety Valve 50 mm. Pressure to which each is adjusted 225 lb. Is easing gear fitted Yes  
 Is a drain cock or valve fitted at lowest point of superheater Yes Number, diameter, and thickness of tubes 20 1 1/2" 10 g.  
 Spare Gear. Tubes 647 Gaskets or joints:—Manhole 4 Handhole 2000 Handhole plates 20

The foregoing is a correct description,

WERKSPoor

*[Signature]*

Manufacturer.

Dates of Survey while building { During progress of work in shops - - - 21/11.25. 5/12.25. 22/12.25. 13/1.26. 28/1.26. 11/4.26. 14/15.26. 18/1.26. Is the approved plan of boiler forwarded herewith Retained in London  
 { During erection on board vessel - - - 30/1.26. 16/1.26. 15/1.26. Total No. of visits 13

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

*The trials have been made in accordance with the approved plan; Secretary's letter and Rules; material tested as required and workmanship good.*

Survey Fee £ : } When applied for, 19  
 Travelling Expenses (if any) £ : } When received, 19

*[Signature]*

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 2 FEB 1926

Assigned



Lloyd's Register Foundation